Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
6	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	2100.00							
	Top Covering Slab								
	Cross road	2	253.00	0.90		455.40			
	Cross road	1	50.00	0.90		45.00			
	Cross road	1	50.00	0.90		45.00			
						545.40	**Sqm**	**2100.00**	**1145340.00**
7	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-(Data rate)								
	Basic rate	5111.00							
	Culvert	4	6.00	1.20		28.80			
						28.80	**Sqm**	**5111.00**	**147196.80**
								Total Construction Cost	**4925947.56**
								DPR & PMC Cost	**74,000.00**
								Sub Total	**4999947.56**
								Utility Shifting,Miscellaneous and Rounding off	**52.44**
								GRAND TOTAL	**5000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates. 11% AD-HOC is added as per order issued on 06-02-2018

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP Bangalore
7/2/18

Administrative Approval

Accorded For RSDR: Walchs only
Head of A/C 2178
CER NO : ..... Dt: 22.03.18

E.E. (Project)

Technical Sanction

Accorded For SD head
Head of A/C 2178 CODE
CER NO : 637 Dt: 08/02/2018

[illegible] CE (YNK)

Bruhat Bangalore Mahanagara Palike

Excecutive Engineer Yelahanka Division

Name of Work: Improvements to roads and drain at Santosh nagara and Muneshwara nagara in ward No. 03, Attur

						Estimate Cost Rs.			100.00 Lakhs
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
	Basic rate	76.00							
	11% AD-HOC	8.36							
	Sub Total-1	84.36							
	6% AW	5.06							
	Sub Total-2	89.42							
	Santoshnagara								
	Top slab								
	2nd cross	2	161.00	1.00		322.00			
	4th cross	2	147.00	1.00		294.00			
	cross road - 1	2	24.00	1.00		48.00			
	cross road - 2	2	25.00	1.00		50.00			
	6th cross	2	398.00	1.00		796.00			
	Kallavav public school	2	65.00	1.00		130.00			
	1st A cross	2	131.00	1.00		262.00			
	White petals school	2	125.00	1.00		250.00			
	Drain slab								
	2nd cross	2	161.00	1.65		531.30			
	4th cross	2	147.00	1.65		485.10			
	cross road - 1	2	24.00	1.65		79.20			
	cross road - 2	2	25.00	1.65		82.50			
	6th cross	2	398.00	1.65		1313.40			
	Kallavav public school	2	65.00	1.65		214.50			
	1st A cross	2	131.00	1.65		432.30			
	1st cross	2	47.00	1.65		155.10			
	White petals school	2	125.00	1.65		412.50			
	Total Qty					**5857.90**			
	Consider 30% of total Qty					**1757.37**			
						1757.37	**Sqm**	**89.42**	**157146.84**
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
	Basic rate	628.00							
	11% AD-HOC	69.08							
	Sub Total-1	697.08							
	6% AW	41.82							
	Sub Total-2	738.90							
	Consider 8% of Total qty of Item no -1					468.63			
						468.63	**Sqm**	**738.90**	**346274.43**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	KSRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
	Basic rate	82.00							
	11% AD-HOC	9.02							
	Sub Total-1	91.02							
	6% AW	5.46							
	Sub Total-2	96.48							
	10km ld & lt, transport	100.00							
	Sub Total-3	196.48							
	Santoshnagara								
	2nd cross	2	161.00	0.55	0.50	88.55			
	4th cross	2	147.00	0.55	0.50	80.85			
	cross road - 1	2	24.00	0.55	0.50	13.20			
	cross road - 2	2	25.00	0.55	0.50	13.75			
	6th cross	2	398.00	0.55	0.50	218.90			
	Kallavav public school	2	65.00	0.55	0.50	35.75			
	1st A cross	2	131.00	0.55	0.50	72.05			
	1st cross	2	47.00	0.55	0.50	25.85			
	White petals school	2	125.00	0.55	0.50	68.75			
	cross road - 3	2	24.00	0.55	0.50	13.20			
	cross road - 4	2	39.00	0.55	0.50	21.45			
	cross road - 5	2	25.00	0.55	0.50	13.75			
	cross road - 6	2	24.00	0.55	0.50	13.20			
	cross road - 7	2	21.00	0.60	0.50	12.60			
	cross road - 8	2	24.00	0.55	0.50	13.20			
	cross road - 9	2	25.00	0.55	0.50	13.75			
	culvert	4	8.00	1.50	1.20	57.60			
						776.40	**Cum**	**196.48**	**152548.00**
4	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub Total-1	5601.06							
	6% AW	336.06							
	Sub Total-2	5937.12							
	culvert	4	8.00	1.50	0.15	7.20			
						7.20	**Cum**	**5937.12**	**42,747.29**
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.9)/ PWD SR 2016-17								
	Basic rate	5005.00							
	11% AD-HOC	550.55							
	Sub Total-1	5555.55							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	% AW	333.33							
	Sub Total-2	5888.88							
	culvert	8	8.00	0.45	0.70	20.16			
						20.16	**Cum**	**5888.88**	**118719.88**
6	KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates at 0.78cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2016-17)								
	Basic rate	5249.00							
	11% AD-HOC	577.39							
	Sub Total-1	5826.39							
	6% AW	349.58							
	Sub Total-2	6175.97							
	culvert	8	8.00	0.45	0.10	2.88			
						2.88	**Cum**	**6175.97**	**17,786.80**
7	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-(Data rate)								
	Basic rate	5111.00							
		4	8.00	1.50		48.00			
						48.00	**Sqm**	**5111.00**	**245328.00**
8	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301(P.No. 143, I.No. 19.14)								
	Basic rate	46.00							
	11% AD-HOC	5.06							
	Sub Total-1	51.06							
	6% AW	3.06							
	Sub Total-2	54.12							
	10km ld & lt, transport	100.00							
	Sub Total-3	154.12							
	Santoshnagara								
	2nd cross	1	161.00	4.10	0.40	264.04			
	4th cross	1	147.00	4.50	0.40	264.60			
	cross road - 1	1	24.00	4.15	0.40	39.84			
	cross road - 2	1	25.00	4.10	0.40	41.00			
	6th cross	1	398.00	4.50	0.40	716.40			
	Kallavav public school	1	65.00	5.20	0.40	135.20			
	1st A cross	1	131.00	5.10	0.35	233.84			
	1st cross	1	47.00	4.70	0.40	88.36			
	White petals school	1	125.00	5.10	0.35	223.13			
	cross road - 3	1	24.00	3.50	0.35	29.40			
	cross road - 4	1	39.00	3.70	0.35	50.51			
	cross road - 5	1	25.00	3.50	0.40	35.00			
	cross road - 6	1	24.00	3.70	0.35	31.08			
	cross road - 7	1	21.00	3.80	0.35	27.93			
	cross road - 8	1	24.00	4.00	0.35	33.60			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	oss road - 9	1	25.00	4.30	0.35	37.63			
	cross road - 10	1	24.00	4.10	0.35	34.44			
						2285.98	**Sqm**	**154.12**	**352323.47**
9	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3(P.No. 149, I.No. 19.64)								
	Basic rate	5.00							
	11% AD-HOC	0.55							
	Sub Total-1	5.55							
	6% AW	0.33							
	Sub Total-2	5.88							
	Santoshnagara								
	2nd cross	1	161.00	4.10		660.10			
	4th cross	1	147.00	4.50		661.50			
	cross road - 1	1	24.00	4.15		99.60			
	cross road - 2	1	25.00	4.10		102.50			
	6th cross	1	398.00	4.50		1791.00			
	Kallavav public school	1	65.00	5.20		338.00			
	1st A cross	1	131.00	5.10		668.10			
	1st cross	1	47.00	4.70		220.90			
	White petals school	1	125.00	5.10		637.50			
	cross road - 3	1	24.00	3.50		84.00			
	cross road - 4	1	39.00	3.70		144.30			
	cross road - 5	1	25.00	3.50		87.50			
	cross road - 6	1	24.00	3.70		88.80			
	cross road - 7	1	21.00	3.80		79.80			
	cross road - 8	1	24.00	4.00		96.00			
	cross road - 9	1	25.00	4.30		107.50			
	cross road - 10	1	24.00	4.10		98.40			
						5965.50	**Sqm**	**5.88**	**35,095.04**
10	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
	Santoshnagara								
	Basic rate	1571.00							
	11% AD-HOC	172.81							
	Sub Total-1	1743.81							
	6% AW	104.63							
	Sub Total-2	1848.44							
	2nd cross	1	161.00	4.10	0.15	99.02			
	4th cross	1	147.00	4.50	0.15	99.23			
	cross road - 1	1	24.00	4.15	0.15	14.94			
	cross road - 2	1	25.00	4.10	0.15	15.38			
	6th cross	1	398.00	4.50	0.15	268.65			
	Kallavav public school	1	65.00	5.20	0.15	50.70			
	1st A cross	1	131.00	5.10	0.15	100.22			
	1st cross	1	47.00	4.70	0.15	33.14			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	White petals school	1	125.00	5.10	0.15	95.63			
	cross road - 3	1	24.00	3.50	0.15	12.60			
	cross road - 4	1	39.00	3.70	0.15	21.65			
	cross road - 5	1	25.00	3.50	0.15	13.13			
	cross road - 6	1	24.00	3.70	0.15	13.32			
	cross road - 7	1	21.00	3.80	0.15	11.97			
	cross road - 8	1	24.00	4.00	0.15	14.40			
	cross road - 9	1	25.00	4.30	0.15	16.13			
	cross road - 10	1	24.00	4.10	0.15	14.76			
						894.83	**Cum**	**1848.44**	**1654029.07**
11	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Basic rate	1668.00							
	11% AD-HOC	183.48							
	Sub Total-1	1851.48							
	6% AW	111.09							
	Sub Total-2	1962.57							
	Santoshnagara								
	2nd cross	1	161.00	4.10	0.200	132.02			
	4th cross	1	147.00	4.50	0.200	132.30			
	cross road - 1	1	24.00	4.15	0.200	19.92			
	cross road - 2	1	25.00	4.10	0.200	20.50			
	6th cross	1	398.00	4.50	0.200	358.20			
	Kallavav public school	1	65.00	5.20	0.200	67.60			
	1st A cross	1	131.00	5.10	0.200	133.62			
	1st cross	1	47.00	4.70	0.200	44.18			
	White petals school	1	125.00	5.10	0.200	127.50			
	cross road - 3	1	24.00	3.50	0.200	16.80			
	cross road - 4	1	39.00	3.70	0.200	28.86			
	cross road - 5	1	25.00	3.50	0.200	17.50			
	cross road - 6	1	24.00	3.70	0.200	17.76			
	cross road - 7	1	21.00	3.80	0.200	15.96			
	cross road - 8	1	24.00	4.00	0.200	19.20			
	cross road - 9	1	25.00	4.30	0.200	21.50			
	cross road - 10	1	24.00	4.10	0.200	19.68			
						1193.10	**Cum**	**1962.57**	**2341540.84**
12	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Basic rate	26.00							
	11% AD-HOC	2.86							
	Sub Total-1	28.86							
	6% AW	1.73							
	Sub Total-2	30.59							
	Santoshnagara								
	2nd cross	1	161.00	4.10		660.10			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	th cross	1	147.00	4.50		661.50			
	cross road - 1	1	24.00	4.15		99.60			
	cross road - 2	1	25.00	4.10		102.50			
	6th cross	1	398.00	4.50		1791.00			
	Kallavav public school	1	65.00	5.20		338.00			
	1st A cross	1	131.00	5.10		668.10			
	1st cross	1	47.00	4.70		220.90			
	White petals school	1	125.00	5.10		637.50			
	cross road - 3	1	24.00	3.50		84.00			
	cross road - 4	1	39.00	3.70		144.30			
	cross road - 5	1	25.00	3.50		87.50			
	cross road - 6	1	24.00	3.70		88.80			
	cross road - 7	1	21.00	3.80		79.80			
	cross road - 8	1	24.00	4.00		96.00			
	cross road - 9	1	25.00	4.30		107.50			
	cross road - 10	1	24.00	4.10		98.40			
						5965.50	**Sqm**	**30.59**	**182494.19**
13	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
	Basic rate	6717.00							
	11% AD-HOC	738.87							
	Sub Total-1	7455.87							
	6% AW	447.35							
	Sub Total-2	7903.22							
	Santoshnagara								
	2nd cross	1	161.00	4.10	0.05	33.01			
	4th cross	1	147.00	4.50	0.05	33.08			
	cross road - 1	1	24.00	4.15	0.05	4.98			
	cross road - 2	1	25.00	4.10	0.05	5.13			
	6th cross	1	398.00	4.50	0.05	89.55			
	Kallavav public school	1	65.00	5.20	0.05	16.90			
	1st A cross	1	131.00	5.10	0.05	33.41			
	1st cross	1	47.00	4.70	0.05	11.05			
	White petals school	1	125.00	5.10	0.05	31.88			
	cross road - 3	1	24.00	3.50	0.05	4.20			
	cross road - 4	1	39.00	3.70	0.05	7.22			
	cross road - 5	1	25.00	3.50	0.05	4.38			
	cross road - 6	1	24.00	3.70	0.05	4.44			
	cross road - 7	1	21.00	3.80	0.05	3.99			
	cross road - 8	1	24.00	4.00	0.05	4.80			
	cross road - 9	1	25.00	4.30	0.05	5.38			
	cross road - 10	1	24.00	4.10	0.05	4.92			
						298.28	**Cum**	**7903.22**	**2357333.6**